

What is claimed is:

1. An image processing device for acquiring image data to be processed, extracting a spectrum of a predetermined physical quantity in said image data, making a determination as to whether or not said spectrum has a plurality of peaks, and performing a process based on a result of the determination.

2. The image processing device according to claim 1, wherein said physical quantity is a signal varied in accordance with a change in an amount of light or a luminance.

3. The image processing device according to claim 1, wherein the determination as to whether or not said spectrum has a plurality of peaks is made based on, with respect to said spectrum, an integral value of a range where said physical quantity is no greater than a first threshold, and an integral value of a range where said physical quantity is no smaller than a second threshold which is greater than said first threshold.

4. The image processing device according to claim 3, wherein at least one of said first and second thresholds is set based on an average level of said physical quantity.

5. The image processing device according to claim 2, wherein

said first threshold is smaller than the average level of said physical quantity, and said second threshold is greater

than the average level of said physical quantity, and

said spectrum is determined as having a plurality of peaks when satisfying at least two conditions out of:

5 a first condition that an integral value of a range where said physical quantity is no greater than said first threshold is no smaller than a first percentage of an integral value of the entire range;

10 a second condition that an integral value of a range where said physical quantity is no smaller than said second threshold is no smaller than a second percentage of the integral value of the entire range; and

15 a third condition that a sum of the integral value of the range where said physical quantity is no greater than said first threshold and the integral value of the range where said physical quantity is no smaller than said second threshold is no smaller than a third percentage of the integral value of the entire range.

20 6. An image processing method for acquiring image data to be processed, extracting a spectrum of a predetermined physical quantity in said image data, making a determination as to whether or not said spectrum has a plurality of peaks, and performing a process based on a result of the determination.

25 7. The image processing method according to claim 6, wherein said physical quantity is a signal varied in accordance with a change in an amount of light or a luminance.

8. The image processing method according to claim 6,
wherein the determination as to whether or not said spectrum
has a plurality of peaks is made based on, with respect to said
spectrum, an integral value of a range where said physical
5 quantity is no greater than a first threshold, and an integral
value of a range where said physical quantity is no smaller than
a second threshold which is greater than said first threshold.

9. The image processing method according to claim 8,
10 wherein at least one of said first and second thresholds is set
based on an average level of said physical quantity.

10. The image processing method according to claim 7,
wherein
15 said first threshold is smaller than the average level
of said physical quantity, and said second threshold is greater
than the average level of said physical quantity, and

said spectrum is determined as having a plurality of peaks
when satisfying at least two conditions out of:

20 a first condition that an integral value of a range
where said physical quantity is no greater than said first
threshold is no smaller than a first percentage of an integral
value of the entire range;

a second condition that an integral value of a range
25 where said physical quantity is no smaller than said second
threshold is no smaller than a second percentage of the integral
value of the entire range; and

a third condition that a sum of the integral value

of the range where said physical quantity is no greater than said first threshold and the integral value of the range where said physical quantity is no smaller than said second threshold is no smaller than a third percentage of the integral value of the entire range.

11. An image processing program product for causing a computer to acquire image data to be processed, extract a spectrum of a predetermined physical quantity in said image data, make a determination as to whether or not said spectrum has a plurality of peaks, and perform a process based on a result of the determination.